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=> index bioscience patents
FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED
FILE 'ENCOMPPAT2' ACCESS NOT AUTHORIZED
COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.42 0.42

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INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 12:44:36 ON 18 MAY 2006

92 FILES IN THE FILE LIST IN STNINDEX

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=> s ((DNA or polynucleotide or nucleic(w)acid)(6a)(purification or isolation)) and (glass or silica)

- 9 FILE AGRICOLA
- 24 FILE ANABSTR
 - 1 FILE ANTE
- 6 FILE AQUASCI
- 44 FILE BIOENG
- 191 FILE BIOSIS
- 441 FILE BIOTECHABS
- 441 FILE BIOTECHDS
- 98 FILE BIOTECHNO
- 13 FILES SEARCHED...
 - 43 FILE CABA
 - 361 FILE CAPLUS
- 15 FILES SEARCHED...
 - 17 FILE CEABA-VTB
 - 4 FILE CIN
 - 2 FILE CONFSCI
 - 1 FILE CROPU
 - 181 FILE DGENE
- 23 FILES SEARCHED...
 - 9 FILE DISSABS
 - 1 FILE EMBAL
 - 138 FILE EMBASE
 - 101 FILE ESBIOBASE
 - 4 FILE FROSTI
 - 4 FILE FSTA
 - 403 FILE GENBANK
 - 153 FILE IFIPAT
- 38 FILES SEARCHED...
 - 7 FILE JICST-EPLUS
 - 79 FILE LIFESCI

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123 FILE MEDLINE
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- 1 FILE NTIS
- 2 FILE OCEAN
- 67 FILE PASCAL

49 FILES SEARCHED...

- 4 FILE PHIN
- 75 FILE PROMT
- 136 FILE SCISEARCH
- 36 FILE TOXCENTER
- 16951 FILE USPATFULL
- 1355 FILE USPAT2
 - 1 FILE VETU
- 197 FILE WPIDS

66 FILES SEARCHED...

- 2 FILE WPIFV
- 197 FILE WPINDEX
- 1 FILE CASREACT
- 15 FILE DPCI
- 2588 FILE EPFULL

73 FILES SEARCHED...

- 2 FILE FRFULL
- 135 FILE GBFULL
- 67 FILE INPADOC
- 12 FILE JAPIO
- 5 FILE KOREAPAT
- 1 FILE PAPERCHEM2
- 58 FILE PATDPAFULL

85 FILES SEARCHED...

- 10262 FILE PCTFULL
 - 2 FILE RUSSIAPAT
- 52 FILES HAVE ONE OR MORE ANSWERS, 92 FILES SEARCHED IN STNINDEX
- L1 QUE ((DNA OR POLYNUCLEOTIDE OR NUCLEIC(W) ACID)(6A)(PURIFICATION OR ISOLAT ION)) AND (GLASS OR SILICA)
- => file biosis biotechabs capus embase medline
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=> s ((DNA or polynucleotide or nucleic(w)acid)(6a)(purification or isolation)) and (glass or silica)

2 FILES SEARCHED...

=> s L2 and not py>1986 MISSING TERM 'AND NOT'

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=> s L2 not py>1986

L3 53 L2 NOT PY>1986

=> dup rem L3

PROCESSING COMPLETED FOR L3

L4 32 DUP REM L3 (21 DUPLICATES REMOVED)

- => d L4 1-32 ti
- L4 ANSWER 1 OF 32 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 1
- TI A NEW RAPID PROCEDURE FOR THE PREPARATION OF PLASMID DNA.
- L4 ANSWER 2 OF 32 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 2
- TI RAPID LARGE-SCALE **PURIFICATION** OF PLASMID **DNA** BY MEDIUM OR LOW-PRESSURE GEL FILTRATION APPLICATION CONSTRUCTION OF THERMOAMPLIFIABLE EXPRESSION VECTORS.
- L4 ANSWER 3 OF 32 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 3
- TI ALKALINE EXTRACTION-GLASS POWDER TREATMENT METHOD FOR ISOLATION AND PURIFICATION OF PLASMID DNA.
- L4 ANSWER 4 OF 32 MEDLINE on STN
- TI Polymer supported DNA synthesis using hydroxybenzotriazole activated phosphotriester intermediates.
- L4 ANSWER 5 OF 32 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 4
- TI Polymer support oligonucleotide synthesis. XVIII: use of β -cyanoethyl-N,N-dialkylamino-/N-morpholino phosphoramidite of deoxynucleosides for the synthesis of DNA fragments simplifying deprotection and **isolation** of the final product
- L4 ANSWER 6 OF 32 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Photoreaction DNA-psoralen: isolation of a new fluorescent 4',5'-cycloadduct with thymine formed with low yield
- L4 ANSWER 7 OF 32 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 5
- TI A SIMPLE AND RAPID PROCEDURE FOR THE **PURIFICATION** OF PLASMID **DNA** USING REVERSE PHASE C-18 **SILICA** BEADS.
- L4 ANSWER 8 OF 32 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
- TI STABILITY OF IMMOBILIZED HIGH MOLECULAR WEIGHT RNA AND ITS UTILIZATION FOR HYBRIDIZATION.
- L4 ANSWER 9 OF 32 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 6
- TI A RAPID PROCEDURE FOR THE **ISOLATION** OF YEAST SACCHAROMYCES-CEREVISIAE MITOCHONDRIAL **DNA** SUITABLE FOR RESTRICTION FRAGMENT ANALYSIS.
- L4 ANSWER 10 OF 32 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 7
- TI ISOLATION AND VISUALIZATION OF ALKALI STABLE PROTEIN DNA COMPLEXES.

- L4 ANSWER 11 OF 32 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 8
- TI ISOLATION OF DNA FROM SINGLE MICRO SURGICALLY EXCISED BANDS OF POLYTENE CHROMOSOMES OF CHIRONOMUS-TENTANS.
- L4 ANSWER 12 OF 32 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 9
- TI A PROCEDURE FOR THE LARGE-SCALE **ISOLATION** OF HIGHLY PURIFIED PLASMID **DNA** USING ALKALINE EXTRACTION AND BINDING TO **GLASS** POWDER.
- L4 ANSWER 13 OF 32 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 10
- TI DISTRIBUTION OF TIGHTLY BOUND PROTEINS IN THE CHICKEN OV ALBUMIN GENE REGION.
- L4 ANSWER 14 OF 32 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Isolation of DNA and DNA recombinants from maize
- L4 ANSWER 15 OF 32 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Further purification of an inhibitory factor for DNA synthesis in regenerating rat liver
- L4 ANSWER 16 OF 32 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
- TI CHLOROPLAST DNA ISOLATION PURITY ACHIEVED WITHOUT NUCLEASE DIGESTION.
- L4 ANSWER 17 OF 32 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Influence of hydrodynamic effects on DNA secondary structure in solutions
- L4 ANSWER 18 OF 32 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 11
- TI SINGLE STEP ISOLATION OF TOTAL DNA AND RNA BY NUCLEAR LYSATE CHROMATOGRAPHY ON SILICA GEL.
- L4 ANSWER 19 OF 32 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 12
- TI PREPARATIVE AND ANALYTICAL **PURIFICATION** OF **DNA** FROM AGAROSE.
- L4 ANSWER 20 OF 32 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Preparation of large molecular weight DNA from the fungus Aspergillus nidulans
- L4 ANSWER 21 OF 32 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 13
- TI RAPID PURIFICATION OF AN RNA TUMOR VIRUS AND PROTEINS BY HIGH PERFORMANCE STERIC EXCLUSION CHROMATOGRAPHY ON POROUS GLASS BEAD COLUMNS.
- L4 ANSWER 22 OF 32 CAPLUS COPYRIGHT 2006 ACS on STN
- TI A simple method for the large-scale preparation of mitochondria from microorganisms
- L4 ANSWER 23 OF 32 CAPLUS COPYRIGHT 2006 ACS on STN
- TI New procedure for extracting deoxyribonucleic acid from yeast
- L4 ANSWER 24 OF 32 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Isolation and characterization of an active DNA
 -binding metabolite of benzo(a)pyrene from hamster liver microsomal incubation system
- L4 ANSWER 25 OF 32 CAPLUS COPYRIGHT 2006 ACS on STN

- TI Large scale purification of Escherichia coli deoxyribonucleic acid-dependent ribonucleic acid polymerase
- L4 ANSWER 26 OF 32 CAPLUS COPYRIGHT 2006 ACS on STN
- TI E.S.R. study of free-radical states in DNA during low-temperature radiolysis
- L4 ANSWER 27 OF 32 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Purification of DNA from Escherichia coli
- L4 ANSWER 28 OF 32 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Isolation of deoxyribonucleic acid from mycobacteria
- L4 ANSWER 29 OF 32 CAPLUS COPYRIGHT 2006 ACS on STN
- TI DNA polymerase from T2-infected Escherichia coli
- L4 ANSWER 30 OF 32 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Regulatory steps in the replication of mammalian cell nuclei
- L4 ANSWER 31 OF 32 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Preparation of a highly purified and fibrous deoxyribonucleic acid from Bacillus subtilis var amyloliquefaciens Fukumoto K-49
- L4 ANSWER 32 OF 32 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Isolation and properties of deoxyribonucleic acid from mammalian sperm
- => d L4 2 3 7 9 12 14 19 ti abs bib
- L4 ANSWER 2 OF 32 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 2
- TI RAPID LARGE-SCALE **PURIFICATION** OF PLASMID **DNA** BY MEDIUM OR LOW-PRESSURE GEL FILTRATION APPLICATION CONSTRUCTION OF THERMOAMPLIFIABLE EXPRESSION VECTORS.
- This study describes a new method of plasmid DNA AB purification which is fast and reliable enough for most purposes in recombinant DNA technology. The present method does not require the use of toxic chemicals, such as phenol or ethidium bromide, costly ultracentrifugation procedures or other processes which can modify the supercoiled structure of the plasmids, such as adsorption on glass fiber. This method is based on the principle of gel filtration chromatography at low pressure (1 bar) or medium pressure (5-10 bar), using Sephacryl S1000 or Superose 6B. It permits recovery of plasmids in preparative quantities (from 300 µg to 4 mg) exempt from RNA, DNA and protein contamination, and is suitable for various common genetic engineering procedures immediately after purification. To test the reliability of the technique and the degree of purification, the plasmids were used to contruct thermoamplifiable vectors, carrying the lacUV5 promoter an the 5' end of the β -galactosidase gene with a single EcoR1 site in each of the 3 possible translational phases. This set of vectors is designed for the expression of foreign genes as hybrid proteins in Escherichia coli.
- AN 1985:361240 BIOSIS
- DN PREV198580031232; BA80:31232
- TI RAPID LARGE-SCALE **PURIFICATION** OF PLASMID **DNA** BY MEDIUM OR LOW-PRESSURE GEL FILTRATION APPLICATION CONSTRUCTION OF THERMOAMPLIFIABLE EXPRESSION VECTORS.
- AU VO-QUANG T [Reprint author]; MALPIECE Y; BUFFARD D; KAMINSKI P A; VIDAL D; STROSBERG A D
- CS LAB D'IMMUNOCYTOCHIMIE, INST PASTEUR, 75015 PARIS, FRANCE
- SO Bioscience Reports, (1985) Vol. 5, No. 2, pp. 101-112. CODEN: BRPTDT. ISSN: 0144-8463.
- DT Article
- FS BA
- LA ENGLISH

- L4 ANSWER 3 OF 32 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 3
- TI ALKALINE EXTRACTION-GLASS POWDER TREATMENT METHOD FOR ISOLATION AND PURIFICATION OF PLASMID DNA.
- An alkaline extraction, glass powder treatment method was tested for isolation and purification of plasmid DNA [Bacillus subtilis]. Plasmid DNA was easily purified by this method. The yields of purified pUB110, pBD64, pSAC1,2 and pBR322 DNA were 470, 550, 130 and 975 µg, respectively, from 1 l of culture. This method will be useful for the purification of plasmid DNA from various bacteria.
- AN 1985:406628 BIOSIS
- DN PREV198580076620; BA80:76620
- TI ALKALINE EXTRACTION-GLASS POWDER TREATMENT METHOD FOR ISOLATION AND PURIFICATION OF PLASMID DNA.
- AU MARUO B [Reprint author]; TOJO T
- CS LAB GENERAL MICROBIOLOGY, COLL AGR AND VET MED, NIHON UNIV
- SO Bulletin of the College of Agriculture and Veterinary Medicine Nihon University, (1985) No. 42, pp. 57-61.
 CODEN: NIPDAD. ISSN: 0078-0839.
- DT Article
- FS BA
- LA JAPANESE
- L4 ANSWER 7 OF 32 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 5
- TI A SIMPLE AND RAPID PROCEDURE FOR THE **PURIFICATION** OF PLASMID **DNA** USING REVERSE PHASE C-18 **SILICA** BEADS.
- As simple and efficient procedure for the rapid isolation of [bacterial] plasmid DNA free of chromosomal DNA and with only minor contamination with RNA is described. The protocol is a modification of the boiling method described by Holmes and Quigley and utilizes C18 reverse-phase silica beads for final concentration and purification of plasmid DNA. The entire procedure can be carried out in 1 day and does not require the use of phenol or CsCl gradients, which require considerable labor and may sometimes cause nicking and lower recoveries of supercoiled DNA. The plasma DNA obtained by this method retains biological activity, is supercoiled and is suitable for restriction and DNA sequence analysis.
- AN 1984:292026 BIOSIS
- DN PREV198478028506; BA78:28506
- TI A SIMPLE AND RAPID PROCEDURE FOR THE **PURIFICATION** OF PLASMID **DNA** USING REVERSE PHASE C-18 **SILICA** BEADS.
- AU SPARKS R B [Reprint author]; ELDER J H
- CS SCRIPPS CLINIC RESEARCH FOUNDATION, DEP MOLECULAR BIOL, LA JOLLA, CALIF 92037, USA
- SO Analytical Biochemistry, (1983) Vol. 135, No. 2, pp. 345-348. CODEN: ANBCA2. ISSN: 0003-2697.
- DT Article
- FS BA
- LA ENGLISH
- L4 ANSWER 9 OF 32 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 6
- TI A RAPID PROCEDURE FOR THE **ISOLATION** OF YEAST SACCHAROMYCES-CEREVISIAE MITOCHONDRIAL **DNA** SUITABLE FOR RESTRICTION FRAGMENT ANALYSIS.
- AB A method for the rapid isolation of mitochondrial DNA
 [mtDNA] from the yeast S. cerevisiae is described. Cells are first
 disrupted by vortexing with glass beads and the mitochondrial
 DNA is then extracted directly from the cell lysate by
 poly-L-lysine-kieselguhr-exchange chromatography. The method is unique
 from most other published procedures in that there is no requirement for
 the isolation of either a crude or purified mitochondrial that there is no

requirement for the isolation of either a crude or purified mitochondrial preparation. Mitochondrial DNA isolated by this procedure yields restriction endonuclease [Hha I and Bam HI] fragment patterns identical to those obtained from DNA isolated by other previously reported procedures.

- AN 1983:310329 BIOSIS
- DN PREV198376067821; BA76:67821
- TI A RAPID PROCEDURE FOR THE **ISOLATION** OF YEAST SACCHAROMYCES-CEREVISIAE MITOCHONDRIAL **DNA** SUITABLE FOR RESTRICTION FRAGMENT ANALYSIS.
- AU HWANG-LEE L [Reprint author]; BLAMIRE J; COTTRELL S F
- CS DEP BIOL, BROOKLYN COLL CITY UNIV NEW YORK, BROOKLYN, NEW YORK 11210, USA
- SO Analytical Biochemistry, (1983) Vol. 128, No. 1, pp. 47-53. CODEN: ANBCA2. ISSN: 0003-2697.
- DT Article
- FS BA
- LA ENGLISH
- L4 ANSWER 12 OF 32 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 9
- TI A PROCEDURE FOR THE LARGE-SCALE **ISOLATION** OF HIGHLY PURIFIED PLASMID **DNA** USING ALKALINE EXTRACTION AND BINDING TO **GLASS** POWDER.
- AB A preparative procedure for obtaining highly purified plasmid [pBR322] DNA from bacterial [Escherichia coli] cells is described. The method is adapted from an earlier procedure, which gave partially purified plasmid in a form suitable for rapid screening of a large number of samples. In the present method, all detectable RNA, chromosomal DNA and protein are removed without the use of enzymes, phenol extraction, dialysis or equilibrium centrifugation. Binding of plasmid DNA to glass powder in the presence of 6 M sodium perchlorate is used for the final purification step.
- AN 1983:178838 BIOSIS
- DN PREV198375028838; BA75:28838
- TI A PROCEDURE FOR THE LARGE-SCALE **ISOLATION** OF HIGHLY PURIFIED PLASMID **DNA** USING ALKALINE EXTRACTION AND BINDING TO **GLASS** POWDER.
- AU MARKO M A [Reprint author]; CHIPPERFIELD R; BIRNBOIM H C
- CS RADIATION BIOL BRANCH, HEALTH SCI DIV, CHALK RIVER NUCLEAR LAB, CHALK RIVER, ONTARIO KOJ 1J0, CANADA
- SO Analytical Biochemistry, (1982) Vol. 121, No. 2, pp. 382-387. CODEN: ANBCA2. ISSN: 0003-2697.
- DT Article
- FS BA
- LA ENGLISH
- L4 ANSWER 14 OF 32 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Isolation of DNA and DNA recombinants from maize
- AB Corn leaf tissue was washed in 5% bleach, rinsed, dried, and frozen in liquid N2. The frozen tissue was then ground in grinding buffer, and the powdered suspension filtered through 60 μm mesh or 3 layers Miracloth. Nuclei were pelleted by centrifugation at 350 g, and the pellet was resuspended in cold lysis buffer. Saturate CsCl was added. Centrifugation at 17,000 g for 15-30 min removed the insol. proteins and polysaccharides. Ethidium bromide was then added to the supernatant fraction (300 μg/mL) followed by centrifugation for 15-20 h at 100,000 g. The fluorescent orange ethidium-DNA band was then removed and the ethidium removed by BuOH extraction, followed by buffer dialysis. The DNA was precipitated with NaOAc and EtOH

and collected by spooling on a **glass** rod or by pelleting in a centrifuge. Depending on the starting tissue, 5-20 µg DNA/g fresh weight tissue was isolated. DNA isolated via 1 CsCl gradient has a 260/280 nm absorbance ratio of 1.6-1.8 and is mostly >60 kilobases in length. The DNA showed no inhibition of endonuclease activity and no nuclease activity. Mitochondrial DNA contamination was 0.2-0.5%; chloroplast DNA

contamination was 2-10%.

- AN 1982:578198 CAPLUS
- DN 97:178198
- TI Isolation of DNA and DNA recombinants from maize
- AU Rivin, Carol J.; Zimmer, Elizabeth A.; Walbot, Virginia
- CS Dep. Biol. Sci., Stanford Univ., Stanford, CA, 94305-2493, USA
- SO Maize Biol. Res. (1982), 161-4. Editor(s): Sheridan, William F. Publisher: Plant Mol. Biol. Assoc., Charlottesville, Va. CODEN: 480JAD
- DT Conference
- LA English
- L4 ANSWER 19 OF 32 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 12
- TI PREPARATIVE AND ANALYTICAL **PURIFICATION** OF **DNA** FROM AGAROSE.
- AB Two procedures were developed for removing DNA from agarose after electrophoretic separation of DNA fragments according to size. Both involve dissolving the DNA-containing agarose in NaI. The preparative technique uses binding of DNA to glass in the presence of NaI. The method is rapid and convenient, and DNA of all MW ranges can be recovered in high yield and without degradation. The DNA is free of agarose and remains susceptible to digestion by restriction enzymes. The analytical technique uses selective precipitation of DNA with acetone and was adapted to molecular hybridization scans of sequences in agarose gels. The sequence-monitoring system is quantitative, directly measuring the proportion of the probe complementary to a given DNA fragment and vice versa. It is especially suitable for analyzing restriction enzyme digests of DNA in mapping experiments.
- AN 1979:212866 BIOSIS
- DN PREV197968015370; BA68:15370
- TI PREPARATIVE AND ANALYTICAL **PURIFICATION** OF **DNA** FROM AGAROSE.
- AU VOGELSTEIN B [Reprint author]; GILLESPIE D
- CS SECT MOL HYBRID, LAB TUMOR CELL BIOL, NATL CANCER INST, BETHESDA, MD 20014, USA
- SO Proceedings of the National Academy of Sciences of the United States of America, (1979) Vol. 76, No. 2, pp. 615-619.

 CODEN: PNASA6. ISSN: 0027-8424.
- DT Article
- FS BA
- LA ENGLISH
- => s L2 not py>1992
- L5 131 L2 NOT PY>1992
- => dup rem L5

PROCESSING COMPLETED FOR L5

L6 71 DUP REM L5 (60 DUPLICATES REMOVED)

- => s L6 and agarose
- L7 7 L6 AND AGAROSE
- => d L7 1-7 ti abs bib
- L7 ANSWER 1 OF 7 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
- TI EXTRACTION OF NUCLEIC ACIDS FROM AGAROSE GEL A QUANTITATIVE AND QUALITATIVE COMPARISON OF FOUR DIFFERENT METHODS.
- AB Agarose gel electrophoresis is commonly used to separate different species of nucleic acids. We compare four different methods of extraction which are commonly used. These methods include buffer extraction, electroelution, glass bead extraction and extraction of DNA from low-melting agarose. The results show that DNA

extracted by these four methods is comparable in their ligability to the PMT 21 vectors and the plasmids with insert can be used for subsequent transfections of competent bacteria. There is a higher yield for buffer extraction and electroelution when compared with ${\bf glass}$ bead extraction and low melting ${\bf agarose}$ (p < 0.05). To conclude, the four commonly used methods for ${\bf DNA}$ isolation are comparable qualitatively. But the simplest method, namely buffer extraction, has the highest yield.

- AN 1990:517315 BIOSIS
- DN PREV199090134591; BA90:134591
- TI EXTRACTION OF NUCLEIC ACIDS FROM AGAROSE GEL A QUANTITATIVE AND QUALITATIVE COMPARISON OF FOUR DIFFERENT METHODS.
- AU PUN K K [Reprint author]; KAM W
- CS DEP MEDICINE, LAB MEDICINE, BIOPHYSICS BIOCHEM, UNIV CALIFORNIA, SAN FRANCISCO, SF, CALIF 94123, USA
- SO Preparative Biochemistry, (1990) Vol. 20, No. 2, pp. 123-136. CODEN: PRBCBQ. ISSN: 0032-7484.
- DT Article
- FS BA
- LA ENGLISH
- ED Entered STN: 19 Nov 1990 Last Updated on STN: 19 Nov 1990
- L7 ANSWER 2 OF 7 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
- TI ISOLATION OF DNA FROM YEASTS.
- Methods are described that allow DNA to be prepared from widely different AΒ yeasts (Candida utilis, Saccharomyces cerevisiae, and Schizosaccharomyces pombe). The methods are reliably reproducible, and the DNA obtained is of appropriate quality for the construction of gene libraries (upper limit of size range consistently 50-150 kbp). In method A, yeast cells are converted into spheroplasts by treatment with a highly purified mixture of enzymes from Trichoderma harzianum, the spheroplasts are lysed in a lauroylsarcosinate/EDTA buffer, and the lysate is incubated with proteinase K and then directly centrifuged through a cesium trifluoroacetate gradient. DNA is recovered from the appropriate fractions by ethanol precipitation, and the redissolved precipitate is incubated with ribonuclease. For the rest of the isolation, two protocols are given, one avoiding and one including phenol/chloroform extraction. In this way, DNA up to about 150 kbp in size can be obtained. In method B, spheroplasts are not made. Yeast cells are broken by grinding under liquid nitrogen and are then worked up in a manner similar to method A, protocol 2. Subsequent steps depend on the purpose for which the DNA is required. Traditional methods of sucrose or salt density gradient centrifugation or agarose gel electrophoresis are applicable for size selection. A sodium iodide/silica matrix technique allows fast and effective DNA recovery from agarose gels.
- AN 1989:244858 BIOSIS
- DN PREV198987125923; BA87:125923
- TI ISOLATION OF DNA FROM YEASTS.
- AU MANN W [Reprint author]; JEFFERY J
- CS DEP BIOCHEM, UNIV ABERDEEN, MARISCHAL COLL, ABERDEEN AB9 1AS, UK
- SO Analytical Biochemistry, (1989) Vol. 178, No. 1, pp. 82-87. CODEN: ANBCA2. ISSN: 0003-2697.
- DT Article
- FS BA
- LA ENGLISH
- ED Entered STN: 20 May 1989 Last Updated on STN: 20 May 1989
- L7 ANSWER 3 OF 7 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
- TI A METHOD FOR HORIZONTAL POLYACRYLAMIDE SLAB GEL ELECTROPHORESIS.
- AB We present a simplified method of preparation of polyacrylamide gels which is totally analogous to the procedure now widely used to pour and run horizontal agarose gels. The acrylamide is poured into an open air gel mold consisting of a glass plate with a masking tape

border and a comb. It is subsequently run in a submarine horizontal electrophoresis apparatus. The electrophoretic mobility and resolution of DNA fragments obtained in such gels are identical to results obtained with gels poured and run in the vertical configuration. Numerous advantages of horizontal polyacrylamide gel electrophoresis are discussed.

AN 1989:240971 BIOSIS

DN PREV198987122036; BA87:122036

TI A METHOD FOR HORIZONTAL POLYACRYLAMIDE SLAB GEL ELECTROPHORESIS.

AU BELLOMY G R [Reprint author]; RECORD M T JR

CS DEP BIOCHEM, UNIV WISCONSIN-MADISON, MADISON, WIS 53706, USA

SO Biotechniques, (1989) Vol. 7, No. 1, pp. 16, 19-21. CODEN: BTNQDO. ISSN: 0736-6205.

DT Article

FS BA

LA ENGLISH

ED Entered STN: 20 May 1989

Last Updated on STN: 20 May 1989

L7 ANSWER 4 OF 7 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN EXTRACTION FROM NATURAL PLANKTONIC MICROORGANISMS OF DNA SUITABLE FOR MOLECULAR BIOLOGICAL STUDIES.

We developed a simple technique for the high-yield extraction of purified AΒ DNA from mixed populations of natural planktonic marine microbes (primarily bacteria). This is a necessary step for several molecular biological approaches to the study of microbial communities in nature. The microorganisms from near-shore marine and brackish water samples, ranging in volume from 8 to 40 liters, were collected on 0.22-μ-pore-size fluorocarbon-based filters, after prefiltration through glass fiber filters, to remove most of the eucaryotes. DNA was extracted directly from the filters in 1% sodium dodecyl sulfate that was heated to 95 to 100° C for 1.5 to 2 min. This procedure lysed essentially all the bacteria and did not significantly denature the DNA. The DNA was purified by phenol extraction, and precautions were taken to minimize shearing. Agarose gel electrophoresis showed that most of the final preparation had a large molecular size (> 23 kilobase pairs). The DNA was sufficiently pure to allow complete digestion by the restriction endonuclease Sau3AI and ligation to vector In a sample in which the extracted DNA was quantified by binding to the dye Hoechst H333258, DNA was quantitatively extracted, and 45% of the initially extracted DNA was recovered after purification Final yields were a few micrograms of DNA per liter of seawater and

were roughly 25 to 50% of the total bacterial DNA in the sample. Alternatives to the initial harvest by filtration method, including continuous-flow centrifugation and thin-channel or hollow-fiber concentration followed by centrifugation, were less efficient than filtration in terms of both time and yield, largely because of the difficulty of centrifuging the very small bacteria typical of marine plankton. These methods were judged to be less appropriate for studies of natural populations as they impose a strong selection for the larger bacteria.

AN 1988:330863 BIOSIS

DN PREV198886037414; BA86:37414

- TI EXTRACTION FROM NATURAL PLANKTONIC MICROORGANISMS OF DNA SUITABLE FOR MOLECULAR BIOLOGICAL STUDIES.
- AU FUHRMAN J A [Reprint author]; COMEAU D E; HAGSTROM A; CHAN A M
- CS MARINE SCI RES CENT, STATE UNIV NEW YORK, STONY BROOK, NY 11794, USA
- SO Applied and Environmental Microbiology, (1988) Vol. 54, No. 6, pp. 1426-1429.

CODEN: AEMIDF. ISSN: 0099-2240.

- DT Article
- FS BA
- LA ENGLISH
- ED Entered STN: 21 Jul 1988 Last Updated on STN: 21 Jul 1988

- L7 ANSWER 5 OF 7 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
- TI PREPARATIVE AND ANALYTICAL PURIFICATION OF DNA FROM
- AB Two procedures were developed for removing DNA from agarose after electrophoretic separation of DNA fragments according to size. Both involve dissolving the DNA-containing agarose in NaI. The preparative technique uses binding of DNA to glass in the presence of NaI. The method is rapid and convenient, and DNA of all MW ranges can be recovered in high yield and without degradation. The DNA is free of agarose and remains susceptible to digestion by restriction enzymes. The analytical technique uses selective precipitation of DNA with acetone and was adapted to molecular hybridization scans of sequences in agarose gels. The sequence-monitoring system is quantitative, directly measuring the proportion of the probe complementary to a given DNA fragment and vice versa. It is especially suitable for analyzing restriction enzyme digests of DNA in mapping experiments.
- AN 1979:212866 BIOSIS
- DN PREV197968015370; BA68:15370
- TI PREPARATIVE AND ANALYTICAL PURIFICATION OF DNA FROM AGAROSE.
- AU VOGELSTEIN B [Reprint author]; GILLESPIE D
- CS SECT MOL HYBRID, LAB TUMOR CELL BIOL, NATL CANCER INST, BETHESDA, MD 20014, USA
- SO Proceedings of the National Academy of Sciences of the United States of America, (1979) Vol. 76, No. 2, pp. 615-619.

 CODEN: PNASA6. ISSN: 0027-8424.
- DT Article
- FS BA
- LA ENGLISH
- L7 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Stepwise synthesis of oligonucleotides. XXXV. Native and immobilized Thermus thermophilus polynucleotide phosphorylase in oligoribonucleotide synthesis
- AB Polynucleotide phosphorylase isolation from T. thermophylus or from protein fractions obtained during various stages of purification of elongation factors (Garber, M. B., Reshetnikova, L. S., 1982), immobilization on CNBr-activated Aganose and macroporous glass modified with (3,3-diethoxypropyl)triethoxysilane, and preparation of oligoribonucleotides (among them the structural analog of anhcodon fragment 34-37 of yeast phenylalanine-tRNA). The native and immobilized enzyme preparation, in contrast to the title enzyme from Escherichia coli and Micrococcus luteus, effectively catalyzed the addition of adenylic and guanylic acids to the oligonucleotide primer O tri-, tetra-, and pentanucleotides containing 3'-terminal guanosine and adenosine residues were synthesized.
- AN 1990:528912 CAPLUS
- DN 113:128912
- TI Stepwise synthesis of oligonucleotides. XXXV. Native and immobilized Thermus thermophilus polynucleotide phosphorylase in oligoribonucleotide synthesis
- AU Sedel'nikova, E. A.; Smolyaninova, O. A.; Zhenodarova, S. M.
- CS Inst. Biol. Phys., Pushchino, USSR
- SO Bioorganicheskaya Khimiya (1990), 16(5), 617-24 CODEN: BIKHD7; ISSN: 0132-3423
- DT Journal
- LA Russian
- L7 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN
- TI Composition for selective adsorption of biopolymers and method for manufacturing it
- AB A composition for selective adsorption of a biopolymer from a mixture of biopolymers comprises a solid carrier coated with a plastic film and a material to which the biopolymer adsorbs. The composition is prepared by

contacting the carrier with a suspension of the plastic in an organic solvent, removing the solvent, and contacting the resulting coated carrier with adsorbent followed by heating at 60-180°, preferably 70-120°. Thus, a plastic Eppendorf centrifuge tube was filled with a CHCl3 suspension of Vestoplast-508 (an α -olefin copolymer). Upon decantation of the mixture, a plastic film remained on the tube. This film was contacted with an ion-exchange resin, which was then baked on at 74°. The resulting coated tube was used to prepare a plasmid from Escherichia coli. The alkaline lysis method was employed, but phenol extraction

was unnecessary. The prepared plasmid was as pure as that prepared by HPLC.

AN 1989:453738 CAPLUS

DN 111:53738

TI Composition for selective adsorption of biopolymers and method for manufacturing it

IN Colpan, Metin; Piotrowiak, Ralf

PA DIAGEN Institut fuer Molekularbiologische Diagnostik G.m.b.H., Fed. Rep. Ger.

SO Ger. Offen., 5 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	DE 3717209	A1	19881201	DE 1987-3717209	19870522
	DE 3717209	C2	19910228		
PRAI	DE 1987-3717209		19870522		

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